Attorney Docket No.: 128521-1000 PATENT

CLAIMS

What is claimed is:

1	1. A method of providing a garment fit to a target consumer group comprising
2	the steps of:
3	determining common body types for the target consumer group;
4	establishing customized body measurement standards for each body type;
5	selecting at least one real fit model for each body type;
6	creating a sample garment in a range of sizes using grading rules;
7	checking each sample garment on a fit model selected for each size and body type;
8	preparing a block for each sample garment size and body type; and
9	using the block to provide a garment fit for a target consumer group.
1	2. The method of claim 1, wherein determining common body types for a target
2	consumer group includes research and quantitative and qualitative analysis of data about the
3	target consumer group.
1	3. The method of claim 2, wherein the database is the Textile Technology
2	Corporation's Size USA data set.
1	4. The method of claim 1, wherein body types are selected from the group
2	consisting of average, curvy, straight, pear-shaped, round, slim, hourglass, and combinations
3	thereof.
1	5. The method of claim 1, wherein design preferences are determined for the
2	target consumer group and used to prepare the sample garment.
1	The method of claim 1, wherein grading rules are selected from the group
2	consisting of applied grading rules, preferred grading rules, and combinations thereof.

- 7. The method of claim 1, wherein the block is created from slopers and used to prepare a starter pattern.
- 1 8. The method of claim 1, wherein the target consumer group is selected from a group consisting of an age group, ethnic group, gender, and combinations thereof.
- 1 9. The method of claim 1, wherein the sample garment is initially applied to a fit 2 model of a specific size.
- 1 10. The method of claim 9, wherein the specific size is the middle of the range of 2 sizes.
- 1 11. The method of claim 1, wherein a real fit model is used to check sample 2 garment fit before the block is prepared.
- 1 12. The method of claim 1, wherein grading rules are applied to the sample 2 garment after adjusting the sample garment to the selected real fit model.
- 1 13. The method of claim 1, wherein the method is for production of the garment 2 at any scale.
- 1 14. A system for preparing a custom fit garment comprising:
- quantitative and qualitative data, including body point measurements about the target consumer group used to establish customized body measurement standards;
- a sample garment created from the customized body measurements standards;
- a first real fit model with body measurements that fall within the customized body
 measurement standards used to fit the sample garment;
- one or more grading rules to create sample garments in a range of sizes for the target consumer group; and
- a second fit model selected from the target consumer group and used to perfect the fit of the sample garment and prepare a custom fit garment.

- 1 15. The system of claim 14, wherein quantitative and qualitative data comprise
- 2 physical and preferential data about the target consumer group selected from the group
- 3 consisting of an apparel-related database, market research, survey, questionnaire, interview,
- 4 focus group, and combinations thereof.
- 1 16. The system of claim 14, wherein the sample garment incorporates desired fit 2 points and product attributes obtained from the target consumer group.
- 1 17. The system of claim 14, wherein one or more grading rules are selected from 2 the group consisting of applied grading rules and preferred grading rules.
- 1 18. The system of claim 14, wherein a first real fit model for each size in the size 2 range is used to fit the sample garment.
- 1 19. The system of claim 14, wherein customized body measurement standards are 2 adjusted fittings with the first real fit model.
- 1 20. The system of claim 14, wherein the custom fit garment is used to establish 2 slopers, blocks, and patterns for production of the custom fit garment.
- 1 21. The system of claim 20, wherein the production is selected from the group consisting of small-scale, medium-scale, and large-scale.

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1 22. A method of providing a custom fit garment comprising the steps of: 2 selecting a target group based on at least one criteria; conducting research about the target group to obtain data; 3 4 identifying at least one body type from the data; 5 providing size groupings for each body type; 6 establishing customized body measurement standards for each size grouping; selecting a size in the middle of the size grouping to create a sample garment; 7 8 checking fit of sample garment on a real fit model with body measurements that conform with the customized body measurement standards; 9 10 applying grading rules to the sample garment to obtain sample garments for the entire 11 size grouping; checking fit at selected sizes using a real fit model for each size; and 12 13 creating a custom fit garment at each size and body type after fits are checked. The method of claim 22, wherein fit is checked using individuals from the 1 23. 2 target group. 1 The method of claim 22, wherein the data is quantitative and qualitative. 24. 1 25. The method of claim 22, wherein grading rules are applied to two sizes above 2 and below the middle size after which the fit is checked on a real fit model. The method of claim 20, wherein adjustment to the fit require that the 1 26.

customized body measurement standards be adjusted.

1	27. Improved grading rules provided for a garment comprising:
2	applied grading rules that grades the garment up and down from a selected size; and
3	preferred grading rules, wherein fit of the garment is adjusted based on design and fit
4	preferences obtained from one or more potential wearers of the garment.
1	28. A real fit model provided for fitting a garment, wherein the real fit model has
2	body measurements within customized body measurement standards established for a
3	particular body type and size.
1	29. An improved method of fitting a garment comprising the steps of:
2	creating a first garment at a size that is in the middle of a size grouping for a
3	particular body type;
4	checking the fit of the first garment on a real fit model and making adjustments to the
5	first garment where fit is unsatisfactory, wherein the real fit model has body measurements
6	within customized body measurement standards for the particular body type and size;
7	using applied grading rules to obtain new sizes above and below the first garment
8	size;
9	rechecking the fit of one or more new sizes on a real fit model and adjusting the fit
10	when unsatisfactory; and
11	adjusting the customized body measurement standards when fit is unsatisfactory.
1	30. The system of claim 14, wherein the custom fit garment is perfected after
2	fitting on one or more individuals selected from the target consumer group.